ASAIO TRANSACTIONS-VOLUME 36

Subject Index

Editors' Note: This index encompasses only the material presented in ASAIO TRANSACTIONS Volume 36, Numbers 1, 2, and 4. Please consult the July-September issue (Vol. 36, No. 3) for an index of the contents of that body of work.

A

Albumin, absorption from peritoneal cavity, 834

Albumin loss, during low-density lipoprotein apheresis, 830 Alternate pathway complement activation, heparin free hemodialysis and, 86

Amyloidosis, dialysis-related, during peritoneal dialysis, 17 Anastomotic flow patterns, graft compliance and, 90

Apheresis, lipoprotein, evaluation of albumin loss during,

Artificial organs, heart, sensitivity to changes in vascular resistance, 805

role in restoration of laryngeal function, 47

total artificial heart animals and, correlation of gross and microscopic appearance of skin buttons in, 825

B

Bioprosthetic heart valve calcification, Al*** binding sites and metallic cation effects on, in rat subdermal model, 56

Blood brain barrier, in galactosamine-induced fulminant hepatic failure rats, 21

Blood glucose monitoring, self, pregnancy complicated by diabetes and, 790

Blood pressure, intradialytic, effect of predialysis verapamil on, 67

Blood pump, pulsatile impeller, 33

Body water content, effect of extracorporeal membrane oxygenation of, in lambs, 817

Brain edema, in galactosamine-induced fulminant hepatic failure rats, 21

C

Calcification, of bioprosthetic heart valves, Al*** binding sites and metallic cation effects on, 56

Cardiogenic shock, postcardiotomy, mechanical ventricular assist devices and, 43

Cardiotomy, cardiogenic shock following, mechanical ventricular assist devices and, 43

Circulatory assist devices, clinical choices for, 792

Coagulopathy, fibrin consumptive, heparin free hemodialysis and, 86

Complement activation, alternate pathway, heparin free hemodialysis and, 86

Computerized tomography, for determination of intraabdominal fluid distribution and diagnosis of complications, in peritoneal dialysis patients, 95

Creatinine clearance, erythropoietin treatment and, hemodialysis and, 36

E

Diabetes, intraperitoneal insulin regimen for, for diabetics on continuous cycle peritoneal dialysis, 119 piezoelectric driven controlled release micropump for delivery of insulin and, 70

pregnancy complicated by, self blood glucose monitoring of diet and insulin dosing and, 799

Dialysate sodium, influence on fluid balance, during hemodialysis, 821

Dialysis. See also Hemodialysis; Peritoneal dialysis intestinal, 4 of elderly, 1

Dialysis-associated diseases, in United States, national surveillance of, 107

Dialyzer urea, erythropoietin treatment and, hemodialysis and, 36

E

Elderly, dialysis of, 1

Endothelialization, of polyurethane surfaces, response to shear stress and platelet adhesion and, 811

Erythropoietin treatment, hemodialysis and, dialyzer urea and creatinine clearances and, 36

Extracorporal membrane oxygenation, effect on body water content and distribution in lambs, 817

F

Fibrin consumptive coagulopathy, heparin free hemodialytis and, 86

Fluid balance, during hemodialysis, influence of dialysate sodium and ultrafiltration on, 821

Fulminant hepatic failure, brain edema and blood brain barrier and, in rats, 21

G

Graft compliance, anastomotic flow patterns and, 90

Н

Heart valves, bioprosthetic, calcification of, Al*** binding sites and metallic cation effects on, 56

Hemodialysis, erythropoietin treatment and, dialyzer urea and creatinine clearances and, 36

fluid balance during, influence of dialysate sodium and ultrafiltration on, 821

heparin free, fibrin consumptive coagulopathy and alternate pathway complement activation and, 86

Hickman catheter as permanent access for, 104 intradialytic blood pressure and, effect of predialysis verapamil on, 67

low molecular weight versus standard heparin and, 28 Hemofiltration, low molecular weight versus standard heparin and, 28

Heparin, low molecular weight versus standard, hemodialysis and hemofiltration and, 28

ASAIO TRANSACTIONS-VOLUME 36

Subject Index

Editors' Note: This index encompasses only the material presented in ASAIO TRANSACTIONS Volume 36, Numbers 1, 2, and 4. Please consult the July-September issue (Vol. 36, No. 3) for an index of the contents of that body of work.

A

Albumin, absorption from peritoneal cavity, 834

Albumin loss, during low-density lipoprotein apheresis, 830 Alternate pathway complement activation, heparin free hemodialysis and, 86

Amyloidosis, dialysis-related, during peritoneal dialysis, 17 Anastomotic flow patterns, graft compliance and, 90

Apheresis, lipoprotein, evaluation of albumin loss during,

Artificial organs, heart, sensitivity to changes in vascular resistance, 805

role in restoration of laryngeal function, 47

total artificial heart animals and, correlation of gross and microscopic appearance of skin buttons in, 825

B

Bioprosthetic heart valve calcification, Al*** binding sites and metallic cation effects on, in rat subdermal model, 56

Blood brain barrier, in galactosamine-induced fulminant hepatic failure rats, 21

Blood glucose monitoring, self, pregnancy complicated by diabetes and, 790

Blood pressure, intradialytic, effect of predialysis verapamil on, 67

Blood pump, pulsatile impeller, 33

Body water content, effect of extracorporeal membrane oxygenation of, in lambs, 817

Brain edema, in galactosamine-induced fulminant hepatic failure rats, 21

C

Calcification, of bioprosthetic heart valves, Al*** binding sites and metallic cation effects on, 56

Cardiogenic shock, postcardiotomy, mechanical ventricular assist devices and, 43

Cardiotomy, cardiogenic shock following, mechanical ventricular assist devices and, 43

Circulatory assist devices, clinical choices for, 792

Coagulopathy, fibrin consumptive, heparin free hemodialysis and, 86

Complement activation, alternate pathway, heparin free hemodialysis and, 86

Computerized tomography, for determination of intraabdominal fluid distribution and diagnosis of complications, in peritoneal dialysis patients, 95

Creatinine clearance, erythropoietin treatment and, hemodialysis and, 36

E

Diabetes, intraperitoneal insulin regimen for, for diabetics on continuous cycle peritoneal dialysis, 119 piezoelectric driven controlled release micropump for delivery of insulin and, 70

pregnancy complicated by, self blood glucose monitoring of diet and insulin dosing and, 799

Dialysate sodium, influence on fluid balance, during hemodialysis, 821

Dialysis. See also Hemodialysis; Peritoneal dialysis intestinal, 4 of elderly, 1

Dialysis-associated diseases, in United States, national surveillance of, 107

Dialyzer urea, erythropoietin treatment and, hemodialysis and, 36

E

Elderly, dialysis of, 1

Endothelialization, of polyurethane surfaces, response to shear stress and platelet adhesion and, 811

Erythropoietin treatment, hemodialysis and, dialyzer urea and creatinine clearances and, 36

Extracorporal membrane oxygenation, effect on body water content and distribution in lambs, 817

F

Fibrin consumptive coagulopathy, heparin free hemodialytis and, 86

Fluid balance, during hemodialysis, influence of dialysate sodium and ultrafiltration on, 821

Fulminant hepatic failure, brain edema and blood brain barrier and, in rats, 21

G

Graft compliance, anastomotic flow patterns and, 90

Н

Heart valves, bioprosthetic, calcification of, Al*** binding sites and metallic cation effects on, 56

Hemodialysis, erythropoietin treatment and, dialyzer urea and creatinine clearances and, 36

fluid balance during, influence of dialysate sodium and ultrafiltration on, 821

heparin free, fibrin consumptive coagulopathy and alternate pathway complement activation and, 86

Hickman catheter as permanent access for, 104 intradialytic blood pressure and, effect of predialysis verapamil on, 67

low molecular weight versus standard heparin and, 28 Hemofiltration, low molecular weight versus standard heparin and, 28

Heparin, low molecular weight versus standard, hemodialysis and hemofiltration and, 28

- Hepatic failure, fulminant, brain edema and blood brain barrier and, 21
- Hickman catheter, for permanent vascular access for hemodialysis, 104
- Hyperkalemia, effects on sinus node, 40

1

- Insulin, piezoelectric driven controlled release micropump for delivery of, 70
- Insulin regimen, intraperitoneal, for diabetics on continuous cycle peritoneal dialysis, 119
- Intraabdominal fluid distribution, computerized tomography for determination of, peritoneal dialysis and, 95

K

Kidney failure. See Dialysis; Hemodialysis; Peritoneal dialysis

ı

- Laryngeal function, restoration of, role of artificial organs in,
- Left ventricular assist device, 787
- Low-density lipoprotein apheresis, evaluation of albumin loss during, 830

M

Micropump, controlled release, maintenance of normoglycemia in pancreatectomized dogs with, 78 piezoelectric driven controlled release, for insulin delivery, 70

N

- Nightly peritoneal dialysis, 8
- Normoglycemia, maintenance of, in pancreatectomized dogs, with controlled release micropump, 78

C

Open heart surgery, pericardial substitution after, need for intensive study of, 789

p

- Pericardial substitution, after open heart surgery, need for intensive study of, 789
- Peritoneal cavity, absorption of sulfamethoxazole and albumin from, 834
- Peritoneal dialysis, computerized tomography for determination of intraabdominal fluid distribution and diagnosis of complications of, 95

- continuous cycle, diabetics on, intraperitoneal insulin regimen for, 119
- dialysis-related amyloidosis during, 17 nightly, 8
- Peritoneovenous shunt, 50
- Peritoneum, determining ultrafiltration properties of, 60 Platelet adhesion, endothelialization of polyurethane surfaces and, response to shear stress and platelet adhesion and, 811
- Polyurethane surfaces, endothelialization of, response to shear stress and platelet adhesion and, 811
- Pregnancy, complicated by diabetes, self blood glucose monitoring of diet and insulin dosing and, 799
- Pulsatile impeller blood pump, 33

R

Registry, combined, for clinical use of ventricular assist devices, 43

S

- Shear stress, endothelialization of polyurethane surfaces and, 811
- Shunt, peritoneovenous, 50
- Sinus node, effects of moderate hypokalemia on, 40
- Skin buttons, in total artificial heart animals, correlation of gross and microscopic appearance of, 825
- Sulfamethoxazole, absorption from peritoneal cavity, 834

T

Total artificial heart animals, correlation of gross and microscopic appearance of skin buttons in, 825

U

- Ultrafiltration, influence on fluid balance, during hemodialy-
- Ultrafiltration properties, of peritoneum, determining, 60 Urea, dialyzer, erythropoietin treatment and, hemodialysis and, 36

V

- Vascular resistance, sensitivity of artifical heart to changes in, 805
- Ventricular assist devices, combined registry for clinical use of, 43
- Verapamil, predialysis, effect on intradialytic blood pressure, 67

W

Water distribution, effect of extracorporeal membrane oxygenation of, in lambs, 817

Author Index

A

Abbott, Thomas M., 36:825 Aizawa, Y., 36:40 Alter, Miriam J., 36:107 Armstrong, Victor, 36:28 Aujla, Nirmal S., 36:119

В

Bellhouse, Brian, 36:811 Bland, Lee A., 36:107 Boyd, James, 36:56 Brans, Yves W., 36:817 Brezin, Joseph, 36:86 Brodsky, I., 36:86 Broniatowski, Michael, 36:47 Brown, Eric, 36:17

C

Casale, Peter, 36:67 Chang, Thomas M. S., 36:21 Cody, Ronald, 36:67 Conroy, James, 36:86 Conroy, John, 36:86

D

Dedhia, Narendra M., 36:95 Delano, B. G., 36:36 De Pauw, L., 36:104 de Vries, Peter M. J. M., 36:821 Dhaene, M., 36:104 Dixit, Vivek, 36:21 Donker, Ab J. M., 36:821 Dratwa, M., 36:104

E

Ersoy, F. Fevzi, 36:95 Eugene, John, 36:792

F

Favero, Martin S., 36:107 Flowers, William E., 36:56 Friedman, E. A., 36:36

G

Gabbay, Shlomo, 36:789 Galbraith, Timothy A., 36:825 Galonsky, R., 36:36 Gazzaniga, Alan B., 36:792 Guo, George X., 36:90 H

Hendler, Ernesto, 36:17 Hirasawa, Y., 36:40 Hooghe, L., 36:104 Horton, Michael W., 36:67 Horvath, Vlad, 36:78 Howanitz, E. Paul, 36:825 Hwang, Ned H. C., 36:90

J

Jovanovic-Peterson, Lois, 36:799

K

Kandt, Michael, 36:28 Kazzi, Nadya J., 36:817 Kimura, Genjiro, 36:830 Kinnaert, P., 36:104 Kjellstrand, C. M., 36:1 Klein, Michael D., 36:817 Kojima, Shunichi, 36:830 Kouw, Peter M., 36:821 Krevolin, Larry, 36:86 Kuramochi, Morio, 36:830

L

LeVeen, Harry H., 36:50 Levy, Robert J., 36:56 Leypoldt, John K., 36:60 Liboro, Regina, 36:86 Lowe, Patty A., 36:825 Lundin, A. P., 36:36

м

Miller, Cynthia A., 36:43 Miller, Joan K., 36:107 Mills, Timothy C., 36:792 Morikawa, M., 36:40 Moyer, Linda A., 36:107 Müller, Hans Jörg, 36:28 Murata, M., 36:40 Murray, Kevin D., 36:825 Myerowitz, P. David, 36:825

Ν

Nomura, Shuichi, 36:830

O

Oe, Liem P., 36:821 Olsen, Donald B., 36:825 Olsen, Don B., 36:805 Olthof, Cornelis G., 36:821 Omae, Teruo, 36:830 Ott, Richard A., 36:792

1

Pae, Walter E., Jr., 36:43 Palder, Steven B., 36:817 Peterson, Charles M., 36:799 Pierce, William S., 36:43 Piraino, Beth, 36:119 Planch, Angela, 36:834 Poirier, Victor, 36:787 Pugh, Sydney, 36:811

Q

Qian, K. X., 36:33 Quellhorst, Eduard, 36:821 Quinn-Cefaro, R. M., 36:36

R

Rabinovitch, Marlene, 36:811 Rao, T. K. S., 36:36 Rosenthal, Eben L., 36:56 Rubin, Jack, 36:834

S

Scheler, Fritz, 36:28 Schloerb, Paul R., 36:4 Schoen, Frederick L., 36:56 Schrader, Joachim, 36:28 Schuenemann, Bernd, 36:821 Schwartz, Allan B., 36:86 Schwartz, Connie A., 36:817 Sefton, M. V., 36:70 Sefton, Michael V., 36:78 Sharp, M. Keith, 36:805 Sherman, Richard A., 36:67 Shiba, Mariko, 36:830 Shibata, A., 36:40 Soldano, Lucille, 36:17 Solf, Andreas, 36:821 Sorkin, Michael I., 36:119 Stibbe, Werner, 36:28 Suzuki, M., 36:40

T

Tsushima, Motoo, 36:830 Tu, Roger, 36:90 Tully, Richard J., 36:95 Twardowski, Zbylut J., 36:8, 36:95

٧

Vanderlinde, Raymond E., 36:86 Vanherweghem, J. L., 36:104 W

Wang, Lui C., 36:90 Warneke, Gerhard, 36:28 Watler, P. K., 36:70 Watson, Kim M., 36:825 Webb, Catherine L., 36:56 Whittlesey, Grant C., 36:817 Williams, William G., 36:811 1

Yamamoto, Akira, 36:830

Z

Zhu, Li, 36:811 Zingg, Walter, 36:78

STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION (Act of August 12, 1970: Section 3685. Title 39 United States Code) Date of Filing—October 1, 1990; Title of Publication—ASAIO Transactions; Publication No.—08897190; Frequency of Issue—Quarterly; Annual Subscription Price—\$115.00; Location of Known Office of Publication—Downsville Pike, Route 3, Box 20-B, Hagerstown, MD 21740; Location of the Headquarters or General Business Offices of the Publisher—East Washington Square, Philadelphia, PA 19105; Publisher—American Society for Artificial Internal Organs, Inc., East Washington Square, Philadelphia, PA 19105; Editor—Eli A. Friedman, MD, SUNY Health Science Center at Brooklyn, 450 Clarkson Avenue, Box 52, Brooklyn, NY 11203; Managing Editor—Lynda Krumpholz, East Washington Square, Philadelphia, PA 19105; Owner—American Society for Artificial Internal Organs, Inc., National Office ASAIO, PO Box C, Boca Raton, FL 33432; Known Bondholders, Mortgagees, and other security holders owning or holding 1 percent or more of total amount of bonds, mortgages, or other securities—None. A. Total no. copies printed (net press run), average 2,850, actual 2,750; B. Paid circulation 1. Sales through dealers and carriers, street vendors and counter sales, average none, actual none; 2. Mail subscriptions, average 2,185, actual 2,480; C. Total paid circulation, average 2,185, actual 2,480; D. Free distribution by mail, carrier or other means. Samples complimentary, and other free copies, average 79, actual 70; E. Total distribution (sum of C and D), average 2,264, actual 2,550; F. Copies not distributed 1. Office use, leftover, unaccounted, spoiled after printing, average 586, actual 200; 2. Returns from news agents, none; G. Total (sum of E and F—should equal net press runs shown in A), average 2,850, actual 2,750. I certify that the statements made by me above are correct and complete. J. W. Lippincott, Vice President.